SEQUENCE LISTING

<110> SCHLESSINGER, JOSEPH HUBBARD, STEVAN B. MOHAMMADI, MOOSA <120> CRYSTAL STRUCTURES OF DOMAINS OF RECEPTOR PROTEIN TYROSINE KINASES AND THEIR LIGANDS <130> 038602/1306 <140> 10/049,429 <141> 2002-02-12 <150> PCT/US00/23744 <151> 2000-08-30 <150> 60/151,810 <151> 1999-08-30 <160> 202 <170> PatentIn Ver. 2.1 <210> 1 <211> 211 <212> PRT <213> Homo sapiens <400> 1 Met Pro Val Ala Pro Tyr Trp Thr Ser Pro Glu Lys Met Glu Lys Lys 1 5 10 15 Leu His Ala Val Pro Ala Ala Lys Thr Val Lys Phe Lys Cys Pro Ser 20 25 30 Ser Gly Thr Pro Asn Pro Thr Leu Arg Trp Leu Lys Asn Gly Lys Glu 35 40 45 Phe Lys Pro Asp His Arg Ile Gly Gly Tyr Lys Val Arg Tyr Ala Thr 50 55 60 Trp Ser Ile Ile Met Asp Ser Val Val Pro Ser Asp Lys Gly Asn Tyr 70 65 75 80 Thr Cys Ile Val Glu Asn Glu Tyr Gly Ser Ile Asn His Thr Tyr Gln 85 90 95 Leu Asp Val Val Glu Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly 100 105 110 Leu Pro Ala Asn Lys Thr Val Ala Leu Gly Ser Asn Val Glu Phe Met 115 120 125 Cys Lys Val Tyr Ser Asp Pro Gln Pro His Ile Gln Trp Leu Lys His 130 135 140

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Ile Glu Val Asn Gly Ser Lys Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala Gly Val Asn Thr Thr Asp Lys Glu Met Glu Val Leu His Leu Arg Asn Val Ser Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Leu Ser His His Ser Ala Trp Leu Thr Val Leu <210> 2 <211> 211 <212> PRT <213> Homo sapiens <400> 2 Asn Lys Arg Ala Pro Tyr Trp Thr Asn Thr Glu Lys Met Glu Lys Arg Leu His Ala Val Pro Ala Ala Asn Thr Val Lys Phe Arg Cys Pro Ala Gly Gly Asn Pro Met Pro Thr Met Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly Gly Tyr Lys Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr Gly Ser Ile Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val Gly Gly Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr Gly Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys Ala Ala Gly Val Asn Thr Thr Asp Lys Glu Ile Glu Val Leu Tyr Ile Arg Asn Val Thr Phe Glu Asp Ala Gly Glu Tyr Thr 

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Cys Leu Ala Gly Asn Ser Ile Gly Ile Ser Phe His Ser Ala Trp Leu Thr Val Leu <210> 3 <211> 211 <212> PRT <213> Homo sapiens <400> 3 Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp Lys Lys Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys Pro Ala Ala Gly Thr Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly Arg Glu Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr Tyr Thr Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro Tyr Val Thr Val Leu Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala Trp Leu Val Val Leu <210> 4

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Ser Gly Thr Pro Asn Pro Thr Leu Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Pro Asp His Arg Ile Gly Gly Tyr Lys Val Arg Tyr Ala Thr Trp Ile Leu Ile Met Asp Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn Glu Tyr Gly Ser Ile Asn Gln Thr Tyr Gln Leu Asp Val Val Glu Arg Ser <210> 6 <211> 103 <212> PRT <213> Homo sapiens <400> 6 Asn Lys Arg Ala Pro Tyr Trp Thr Asn Thr Glu Lys Met Glu Lys Arg 10 . Leu His Ala Val Pro Ala Ala Asn Thr Val Lys Phe Arg Cys Pro Ala Gly Gly Asn Pro Met Pro Thr Met Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Gln Glu His Arg Ile Gly Gly Tyr Lys Val Arg Asn Gln His Trp Ser Leu Ile Met Glu Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Val Val Glu Asn Glu Tyr Gly Ser Ile Asn His Thr Tyr His Leu Asp Val Val Glu Arg Ser <210> 7 <211> 103 <212> PRT <213> Homo sapiens <400> 7 Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp Lys Lys 5 -Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys Pro Ala Ala Gly Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly Arg Glu 

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Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr Tyr Thr Leu Asp Val Leu Glu Arg Ser <210> 8 <211> 103 <212> PRT <213> Homo sapiens <400> 8 Pro Gln Gln Ala Pro Tyr Trp Thr His Pro Gln Arg Met Glu Lys Lys Leu His Ala Val Pro Ala Gly Asn Thr Val Lys Phe Arg Cys Pro Ala Ala Gly Asn Pro Thr Pro Thr Ile Arg Trp Leu Lys Asp Gly Gln Ala Phe His Gly Glu Asn Arg Ile Gly Gly Ile Arg Leu Arg His Gln His Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly Thr Tyr Thr Cys Leu Val Glu Asn Ala Val Gly Ser Ile Arg Tyr Asn Tyr Leu Leu Asp Val Leu Glu Arg Ser <210> 9 <211> 108 <212> PRT <213> Homo sapiens <400> 9 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr Val Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys 

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Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala Gly Val Asn Thr Thr Asp Lys Glu Met Glu Val Leu His Leu Arg Asn Val Ser Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Leu Ser His His Ser Ala Trp Leu Thr Val Leu <210> 10 <211> 108 <212> PRT <213> Homo sapiens <400> 10 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val Gly Gly Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr Gly Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys Ala Ala Gly Val Asn Thr Thr Asp Lys Glu Ile Glu Val Leu Tyr Ile Arg Asn Val Thr Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Ile Ser Phe His Ser Ala Trp Leu Thr Val Leu <210> 11 <211> 108 <212> PRT <213> Homo sapiens <400> 11 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro Tyr Val Thr Val Leu Lys Thr Ala Gly 

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Ala Asn Thr Thr Asp Lys Glu Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala Trp Leu Val Val Leu <210> 12 <211> 106 <212> PRT <213> Homo sapiens <400> 12 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Thr Thr Ala Val Val Gly Ser Asp Val Glu Leu Leu Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu Lys His Ile Val Ile Asn Gly Ser Ser Phe Gly Ala Val Gly Phe Pro Tyr Leu Lys Val Val Gln Thr Ala Asp Ile Asn Ser Ser Glu Val Glu Val Leu Tyr Leu Arg Asn Val Ser Ala Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Leu Ser Tyr Gln Ser Ala Trp Leu Thr Val Leu <210> 13 <211> 106 <212> PRT <213> Homo sapiens <400> 13 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr Val Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys His Ser Gly 

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Ile Asn Ser Ser Asp Ala Glu Val Leu Thr Leu Phe Asn Val Thr Glu Ala Gln Ser Gly Glu Tyr Val Cys Lys Val Ser Asn Tyr Ile Gly Glu Ala Asn Gln Ser Ala Trp Leu Thr Val Thr <210> 14 <211> 106 <212> PRT <213> Homo sapiens <400>14Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Ala Ser Thr Val Val Gly Gly Asp Val Glu Phe Val Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Ile Lys His Val Glu Lys Asn Gly Ser Lys Tyr Gly Pro Asp Gly Leu Pro Tyr Leu Lys Val Leu Lys His Ser Gly Ile Asn Ser Ser Asn Ala Glu Val Leu Ala Leu Phe Asn Val Thr Glu Ala Asp Ala Gly Glu Tyr Ile Cys Lys Val Ser Asn Tyr Ile Gly Gln Ala Asn Gln Ser Ala Trp Leu Thr Val Leu <210> 15 <211> 108 <212> PRT <213> Homo sapiens <400> 15 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro Tyr Val Thr Val Leu Lys Thr Ser Trp Ile Ser Glu Ser Val Glu Ala Asp Val Arg Leu Arg Leu Ala Asn Val 

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Ser Glu Arg Asp Gly Glu Tyr Thr Leu Cys Arg Ala Thr Asn Phe Ile Gly Val Ala Glu Lys Ala Phe Ala Trp Ser Val His <210> 16 <211> 108 <212> PRT <213> Homo sapiens <400> 16 Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr Val Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Val Ile Met Ala Pro Val Phe Val Gly Gln Ser Thr Gly Lys Glu Thr Thr Val Ser Gly Ala Gln Val Pro Val Gly Arg Leu Ser Cys Pro Arg Met Gly Ser Phe Leu Thr Leu Gln Ala His Thr Leu His Leu Ser <210> 17 <211> 132 <212> PRT <213> Homo sapiens <400> 17 Pro Gly Asn Tyr Lys Lys Pro Lys Leu Leu Tyr Cys Ser Asn Gly His Phe Leu Arg Ile Leu Pro Asp Gly Thr Val Asp Gly Asp Arg Ser Asp Gln His Ile Gln Leu Gln Leu Ser Ala Glu Ser Val Glu Val Tyr Ile Lys Ser Thr Glu Thr Gly Gln Tyr Leu Ala Met Asp Thr Asp Gly Leu Leu Tyr Gly Ser Gln Thr Pro Asn Glu Glu Cys Leu Phe Leu Glu Arg 

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Leu Glu Glu Asn His Tyr Asn Thr Tyr Ile Ser Lys Lys His Ala Glu Lys Asn Trp Phe Val Gly Leu Lys Lys Asn Gly Ser Cys Lys Arg Gly Pro Arg Thr His Tyr Gly Gln Lys Ala Ile Leu Phe Leu Pro Leu Pro Val Ser Ser Asp <210> 18 <211> 133 <212> PRT <213> Homo sapiens <400> 18 Pro Gly His Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser <210> 19 <211> 150 <212> PRT <213> Homo sapiens <400> 19 Leu Gly Gly Ala Pro Arg Arg Arg Lys Leu Tyr Cys Ala Thr Lys Tyr His Leu Gln Leu His Pro Ser Gly Arg Val Asn Gly Ser Leu Glu Asn 

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Ser Ala Tyr Ser Ile Leu Glu Ile Thr Ala Val Glu Val Gly Ile Val Ala Ile Arg Gly Leu Phe Ser Gly Arg Tyr Leu Ala Met Asn Lys Arg Gly Arg Leu Tyr Ala Ser Glu His Tyr Ser Ala Glu Cys Glu Phe Val Glu Arg Ile His Glu Leu Gly Tyr Asn Thr Tyr Ala Ser Arg Leu Tyr Arg Thr Val Ser Ser Thr Pro Gly Ala Arg Arg Gln Pro Ser Ala Glu Arg Leu Trp Tyr Val Ser Val Asn Gly Lys Gly Arg Pro Arg Arg Gly Phe Lys Thr Arg Arg Thr Gln Lys Ser Ser Leu Phe Leu Pro Arg Val Leu Asp His Arg Asp His <210> 20 <211> 132 <212> PRT <213> Homo sapiens <400> 20 Leu Leu Gly Ile Pro Arg Leu Arg Arg Leu Tyr Cys Asn Val Gly Ile Gly Phe His Leu Gln Ala Leu Pro Asp Gly Arg Ile Gly Gly Ala His Ala Asp Thr Arg Asp Ser Leu Leu Glu Glu Leu Ser Pro Val Glu Arg Gly Val Val Ser Ile Phe Gly Val Ala Ser Arg Phe Phe Val Ala Met Ser Ser Lys Gly Lys Leu Tyr Tyr Gly Ser Pro Phe Phe Thr Asp Glu Cys Thr Phe Lys Glu Ile Leu Leu Pro Asn Asn Tyr Asn Ala Tyr Glu Ser Tyr Lys Tyr Pro Gly Met Phe Ile Ala Leu Ser Lys Asn Gly Lys Thr Lys Lys Gly Asn Arg Val Ser Pro Thr Met Lys Val Thr His Phe Leu Pro Arg Leu 

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Phe Arg Glu Thr Leu Leu Pro Asn Asn Tyr Asn Ala Tyr Glu Ser Asp Leu Tyr Gln Gly Thr Tyr Ile Ala Leu Ser Lys Tyr Gly Arg Val Lys Arg Gly Ser Lys Val Ser Pro Ile Met Thr Val Thr His Phe Leu Pro Arg Ile <210> 23 <211> 135 <212> PRT <213> Homo sapiens <400> 23 Glu Gly Gly Asp Ile Arg Val Arg Arg Leu Phe Cys Arg Thr Gln Trp Tyr Leu Arg Ile Asp Lys Arg Gly Lys Val Lys Gly Thr Gln Glu Met Lys Asn Asn Tyr Asn Ile Met Glu Ile Arg Thr Val Ala Val Gly Ile Val Ala Ile Lys Gly Val Glu Ser Glu Phe Tyr Leu Ala Met Asn Lys Glu Gly Lys Leu Tyr Ala Lys Lys Glu Cys Asn Glu Asp Cys Asn Phe Lys Glu Leu Ile Leu Glu Asn His Tyr Asn Thr Tyr Ala Ser Ala Lys Trp Thr His Asn Gly Gly Glu Met Phe Val Ala Leu Asn Gln Lys Gly Ile Pro Val Arg Gly Lys Lys Thr Lys Lys Glu Gln Lys Thr Ala His Phe Leu Pro Met Ala Ile Thr <210> 24 <211> 138 <212> PRT <213> Homo sapiens <400> 24 Ser Arg Arg Leu Ile Arg Thr Tyr Gln Leu Tyr Ser Arg Thr Ser Gly Lys His Val Gln Val Leu Ala Asn Lys Arg Ile Asn Ala Met Ala Glu 

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Tyr Arg Gln Arg Arg Ser Gly Arg Ala Trp Tyr Leu Gly Leu Asp Lys Glu Gly Gln Val Met Lys Gly Asn Arg Val Lys Lys Thr Lys Ala Ala His Phe Leu Pro Lys Leu Leu Glu Val Ala Met Tyr <210> 28 <211> 141 <212> PRT <213> Homo sapiens <400> 28 Pro Gln Leu Lys Gly Ile Val Thr Arg Leu Phe Ser Gln Gln Gly Tyr Phe Leu Gln Met His Pro Asp Gly Thr Ile Gly Val Thr Lys Asp Glu Asn Ser Asp Tyr Thr Leu Phe Asn Leu Ile Pro Val Gly Leu Arg Val Val Ala Ile Gln Gly Val Lys Ala Ser Leu Tyr Val Ala Met Asn Gly Glu Gly Tyr Leu Tyr Ser Ser Asp Val Phe Thr Pro Glu Cys Lys Phe Lys Glu Ser Val Phe Glu Asn Tyr Tyr Val Ile Tyr Ser Ser Thr Leu Tyr Arg Gln Gln Glu Ser Gly Arg Ala Trp Phe Leu Gly Leu Asn Lys Glu Gly Gln Ile Met Lys Gly Asn Arg Val Lys Lys Thr Lys Pro Ser Ser His Phe Val Pro Lys Pro Ile Glu Val Cys Met Tyr <210> 29 <211> 141 <212> PRT <213> Homo sapiens <400> 29 Pro Gln Leu Lys Gly Ile Val Thr Lys Leu Tyr Ser Arg Gln Gly Tyr His Leu Gln Leu Gln Ala Asp Gly Thr Ile Asp Gly Thr Lys Asp Glu Asp Ser Thr Tyr Thr Leu Phe Asn Leu Ile Pro Val Gly Leu Arg Val 

Val Ala Ile Gln Gly Val Gln Thr Lys Leu Tyr Leu Ala Met Asn Ser Glu Gly Tyr Leu Tyr Thr Glu Ser Glu Leu Phe Thr Pro Glu Cys Lys Phe Lys Glu Ser Val Phe Glu Asn Tyr Tyr Val Thr Tyr Ser Met Ile Tyr Arg Gln Gln Gln Ser Gly Arg Gly Trp Tyr Leu Gly Leu Asn Lys Glu Gly Glu Ile Met Lys Gly Asn His Val Lys Lys Asn Lys Pro Ala Ala His Phe Leu Pro Lys Pro Leu Lys Val Ala Met Tyr <210> 30 <211> 142 <212> PRT <213> Homo sapiens <400> 30 Leu Gln Leu Lys Gly Ile Val Thr Arg Leu Tyr Cys Arg Gln Gly Tyr Tyr Leu Gln Met His Pro Asp Gly Ala Leu Asp Gly Thr Lys Asp Asp Ser Thr Asn Ser Thr Leu Phe Asn Leu Ile Pro Val Gly Leu Arg Val Val Ala Ile Gln Gly Val Lys Thr Gly Leu Tyr Ile Ala Met Asn Gly Glu Gly Tyr Leu Tyr Pro Ser Glu Leu Phe Pro Thr Pro Glu Cys Lys Phe Lys Glu Ser Val Phe Glu Asn Tyr Tyr Val Ile Tyr Ser Ser Met Leu Tyr Arg Gln Gln Glu Ser Gly Arg Ala Tyr Phe Leu Gly Val Asn Lys Glu Gly Gln Ala Met Lys Gly Asn Arg Val Lys Lys Thr Lys Pro Ala Ala His Phe Leu Pro Lys Pro Leu Glu Val Ala Met Tyr <210> 31 <211> 134 <212> PRT

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Asp Gly Ser Pro Arg Glu Gly Tyr Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Ala Asp Pro Ser Lys Leu <210> 33 <211> 136 <212> PRT <213> Homo sapiens <400> 33 Ser Arg Arg Gln Ile Arg Glu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly - 5 Lys His Val Gln Val Thr Gly Arg Arg Ile Ser Ala Thr Ala Glu Asp Gly Asn Lys Phe Ala Lys Leu Ile Val Glu Thr Asp Thr Phe Gly Ser Arg Val Arg Lys Gly Val Ala Glu Ser Lys Tyr Ile Cys Met Asn Lys Arg Gly Lys Leu Ile Gly Lys Pro Ser Gly Lys Ser Lys Asp Cys Val Phe Thr Glu Ile Val Leu Glu Asn Asn Tyr Thr Ala Phe Gln Asn Ala Arg His Glu Gly Trp Phe Met Ala Phe Thr Arg Gln Gly Arg Pro Arg Gln Ala Ser Arg Ser Arg Gln Asn Gln Arg Glu Ala His Phe Ile Lys Arg Leu Tyr Gln Gly Gln Leu Pro <210> 34 <211> 137 <212> PRT <213> Homo sapiens <400> 34 Ser Arg Lys Gln Leu Arg Leu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly Lys His Ile Gln Val Leu Gly Arg Arg Ile Ser Ala Arg Gly Glu Asp Gly Pro Lys Tyr Ala Gln Leu Leu Val Glu Thr Asp Thr Phe Gly Ser Gln Val Arg Ile Lys Gly Lys Glu Thr Glu Phe Tyr Leu Cys Met Asn 

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Arg Lys Gly Lys Leu Val Gly Lys Pro Asp Gly Thr Ser Lys Glu Cys Val Phe Ile Glu Lys Val Leu Glu Asn Asn Tyr Thr Ala Leu Met Ser Ala Lys Tyr Ser Gly Trp Tyr Val Gly Phe Thr Lys Lys Gly Arg Pro Arg Lys Gly Pro Lys Thr Arg Glu Asn Gln Gln Asp Val His Phe Met Lys Arg Tyr Pro Lys Gly Gln Pro Glu <210> 35 <211> 137 <212> PRT <213> Homo sapiens <400> 35 Trp Gly Pro Ile Arg Leu Arg His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu Arg Ile Arg Ala Asp Gly Val Asp Gly Cys Ala Arg Gly Gln Ser Ala Ile Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe Leu Pro Met Leu Pro Met Val Pro Glu Glu <210> 36 <211> 39 <212> PRT <213> Unknown Organism <220>

<223> Description of Unknown Organism: SCF peptide

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<220> <223> Description of Unknown Organism: SCF peptide

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